

Appendix A
Public Notification that a potential event was occurring
(40 CFR §50.14(c)(1))

FIGURE A-1
NATIONAL WEATHER SERVICE PUBLIC ZONES

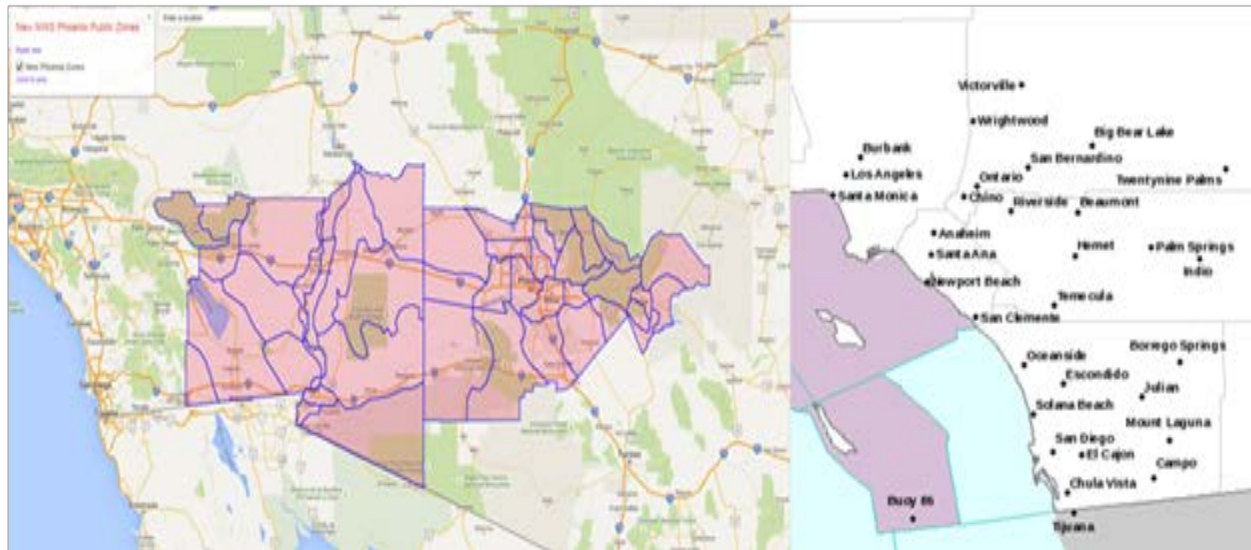


Fig A-1: Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

FIGURE A-2 STRONG WINDS FOR SAN DIEGO MOUNTAINS AND DESERTS

National Weather Service Forecast Office
San Diego, CA

Home News Organization FAQ Share Search WR

Get Local Forecast for:
Enter location GO
Search Help

Wind Advisory

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE SAN DIEGO CA
239 AM PDT THU MAY 19 2016

...STRONG WINDS IN THE MOUNTAINS AND DESERTS THIS AFTERNOON THROUGH FRIDAY NIGHT..

.A LOW PRESSURE TROUGH WILL MOVE INTO CALIFORNIA TONIGHT. IT WILL PRODUCE STRONG WINDS IN THE MOUNTAINS AND DESERTS THIS AFTERNOON THROUGH FRIDAY NIGHT. WHILE WINDS DECREASE EARLY SATURDAY...BREEZY CONDITIONS WILL CONTINUE THROUGH THE WEEKEND.

CAZ055-056-058-060>062-065-192100-
/O.NEW.KSGX.WI.Y.0030.160520T0000Z-160521T1000Z/
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
SAN GORGONIO PASS NEAR BANNING-
INCLUDING THE CITIES OF...BIG BEAR CITY...VICTORVILLE..
HESPERIA...APPLE VALLEY...PALM DESERT...BORREGO SPRINGS..
DESERT HOT SPRINGS
239 AM PDT THU MAY 19 2016

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM PDT SATURDAY..

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM PDT SATURDAY.

- * WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 50 MPH. ISOLATED GUSTS TO 60 MPH.
- * VISIBILITY...AREAS REDUCED TO 3 MILES OR BELOW IN THE DESERTS BECAUSE OF BLOWING DUST AND SAND.
- * IMPACTS...HAZARDOUS TRAVEL PARTICULARLY FOR HIGH PROFILE VEHICLES ALONG SOME STRETCHES OF HIGHWAY EXPERIENCING CROSS WINDS. DOWNED TREE LIMBS AND POWER LINES ARE POSSIBLE.
- * OUTLOOK...DIMINISHING WINDS SATURDAY MORNING...BUT CONTINUED BREEZY THROUGH THE WEEKEND.

PRECAUTIONARY/PREPAREDNESS ACTIONS..

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

&&
<<

USA.gov
Department of Homeland Security

Left Sidebar:

- Current Hazards
 - Outlooks
 - Submit Report
- Current Conditions
 - Observations
 - Radar
 - Satellite
 - Precipitation
 - Mapped Weather
 - Other Hazards
- Forecasts
 - Forecast Discussion
 - Local Area
 - Activity Planner
 - Aviation Weather
 - Fire Weather
 - Marine Weather
 - Severe Weather
 - Hurricane Center
 - User Defined Area
 - Travel
 - Fastlinks
- Hydrology
 - Rivers and Lakes
 - Forecasts / Obs
- Climate
 - Local
 - National
 - Drought
 - More...
 - Climate portal
- Weather Safety
 - Preparedness
 - Weather Radio
 - SkyWarn™
 - StormReady
 - TsunamiReady
- Additional Info
 - Items of Interest
 - Other Useful Links
 - Education Resources
 - COOP Observer
 - Our Office
 - NWS News
- Contact Us
 - Contact Info
 - Feedback
 - FAQ

Fig A-2: A Wind Advisory was issued for the San Diego deserts immediately upstream of Imperial County. Blowing dust and sand was expected. This area was immediately upstream of Imperial County. Source: NWS San Diego

FIGURE A-3
WIND ADVISORY FOR SAN DIEGO MOUNTAINS AND DESERTS

Message: NOAA-NWS-ALERTS-
 CA1255FC943E8C.WindAdvisory.1255FCB2DAE0CA.SGXNPWSGX.1c0767c7d998a034c2a808a038eccc7
 from w-nws.webmaster@noaa.gov

Sent: 02:39 PDT on 05-19-2016

Effective: 02:39 PDT on 05-19-2016

Expires: 03:00 PDT on 05-21-2016

Event: Wind Advisory

Alert:

...STRONG WINDS IN THE MOUNTAINS AND DESERTS THIS AFTERNOON
 THROUGH FRIDAY NIGHT...

.A LOW PRESSURE TROUGH WILL MOVE INTO CALIFORNIA TONIGHT. IT WILL
 PRODUCE STRONG WINDS IN THE MOUNTAINS AND DESERTS THIS AFTERNOON
 THROUGH FRIDAY NIGHT. WHILE WINDS DECREASE EARLY SATURDAY...BREEZY
 CONDITIONS WILL CONTINUE THROUGH THE WEEKEND.

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM PDT
 SATURDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND
 ADVISORY...WHICH IS IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM
 PDT SATURDAY.

* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 50 MPH.
 ISOLATED GUSTS TO 60 MPH.

* VISIBILITY...AREAS REDUCED TO 3 MILES OR BELOW IN THE DESERTS
 BECAUSE OF BLOWING DUST AND SAND.

* IMPACTS...HAZARDOUS TRAVEL PARTICULARLY FOR HIGH PROFILE
 VEHICLES ALONG SOME STRETCHES OF HIGHWAY EXPERIENCING CROSS
 WINDS. DOWNED TREE LIMBS AND POWER LINES ARE POSSIBLE.

* OUTLOOK...DIMINISHING WINDS SATURDAY MORNING...BUT CONTINUED
 BREEZY THROUGH THE WEEKEND.

Instructions: A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN
 MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

Target Area: Apple and Lucerne Valleys
 Coachella Valley
 Riverside County Mountains
 San Bernardino County Mountains
 San Diego County Deserts
 San Diego County Mountains
 San Geronio Pass near Banning

Forecast Office: NWS San Diego (Southwestern California)

Fig. A-3: A Wind Advisory was issued for the San Diego deserts immediately upstream of Imperial County. Blowing dust and sand was expected. Source: NWS San Diego.

FIGURE A-4
STRONG WINDS IN THE MOUNTAINS AND DESERTS

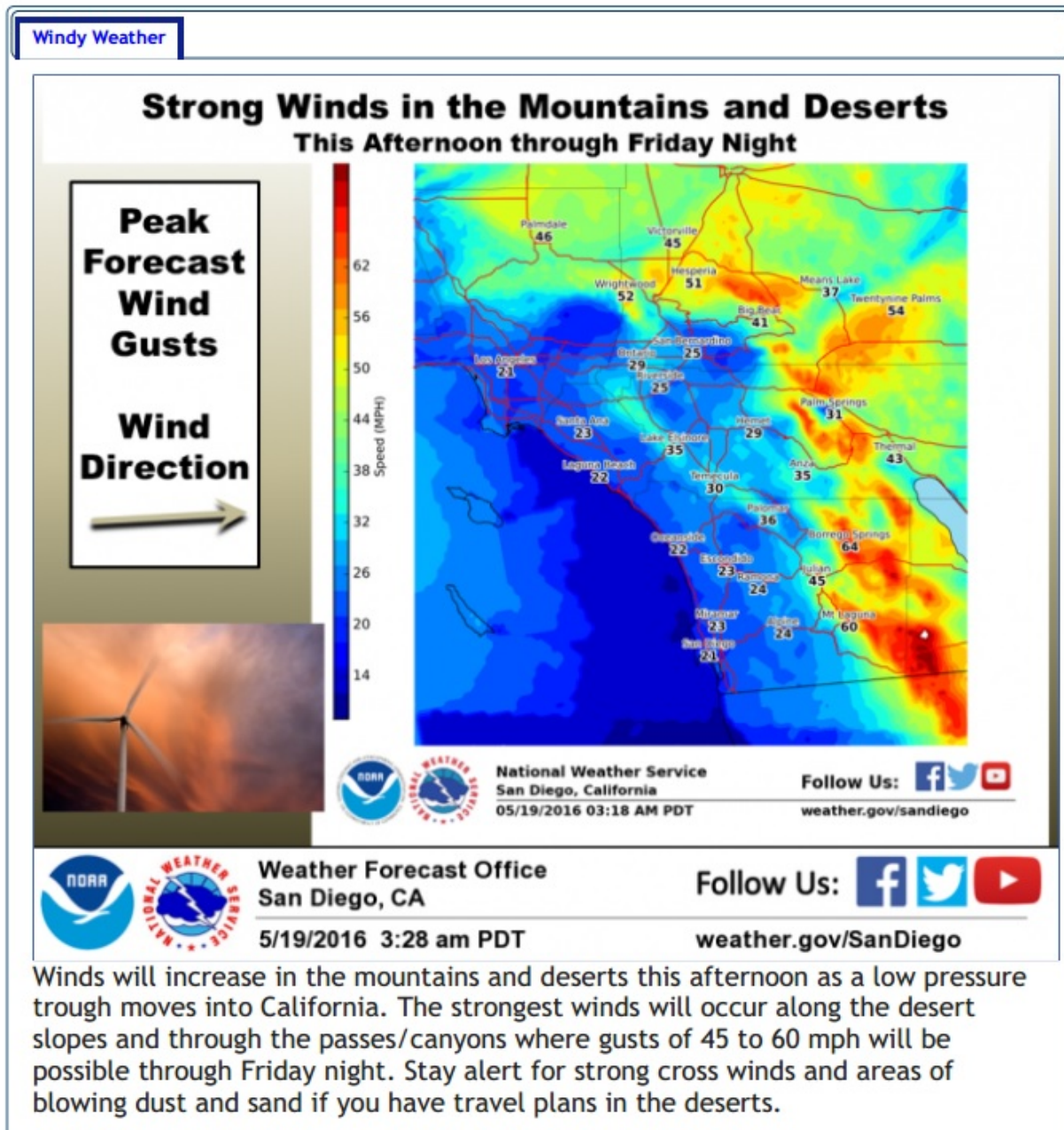


Fig. A-4: May 19 a Weather Story issued by the NWS forecasted that a trough moving through the region would create gusty winds on May 19 with the strongest winds along desert slopes. These areas were immediately upstream of Imperial County. Source: NWS San Diego.

FIGURE A-5
STRONG WINDS ACROSS SOUTHEASTERN CALIFORNIA

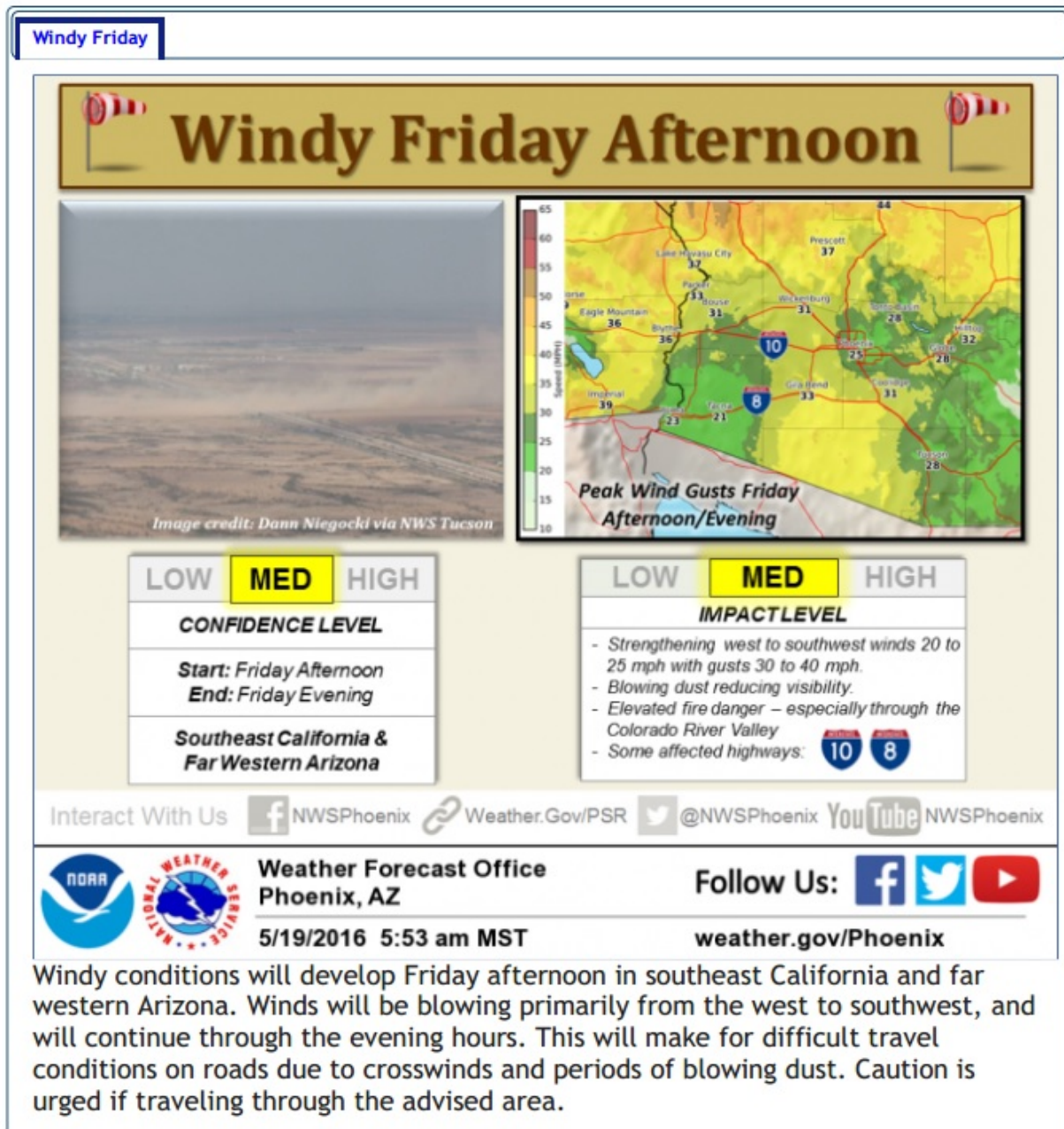


Fig. A-5: On May 19 a Weather Story issued by the NWS forecasted gusty winds and blowing dust across southeastern California and southwestern Arizona. Source: NWS Phoenix.

FIGURE A-6 STRONG WINDS ACROSS SOUTHEASTERN CALIFORNIA

Area Forecast Discussion

National Weather Service Phoenix AZ

930 AM MST THU MAY 19 2016

.SYNOPSIS...

Dry weather will return to most of Arizona and southeast California today with only isolated showers along the Mogollon Rim and far eastern Arizona during the afternoon hours. Another large Pacific disturbance will move into the western states through the end of the week, lifting north of Arizona over the weekend. This system will bring breezy and cooler than normal temperatures back to the region.

.DISCUSSION...

Upper level low has moved off well to the east of Arizona leaving behind a relatively dry and subsident northwesterly flow aloft. 12z plot data depicted anticyclonic flow across Arizona with 20-30m height rises. Moisture values were still elevated however, with PWAT values at 0.87 inches at San Diego and 0.75 inches at Tucson. Surface dewpoints over the lower deserts were mostly in the 40s at 8 am. IR imagery showed sunny skies area wide. Guidance remains consistent in calling for a short wave upper ridge to settle across the desert southwest today ahead of a deeper low developing along the nrn CA and PAC NW coast.

.PREVIOUS DISCUSSION...

Early morning WV satellite imagery depicts

The aforementioned secondary upstream system will continue to amplify through the weekend with heights aloft reaching 2 to 3 normalized standard deviations below normal while propagating from northern CA into the Great Basin. Ahead of a channeled 120+kt jet streak cutting through southern NV, a steepening pressure gradient will force strengthening wind fields in the middle and lower troposphere while steady height falls promote deeper daytime mechanical mixing. Models are in very good agreement suggesting 30-35kt winds within the H8-H7 layer Friday afternoon/evening along and behind a tight lower level theta-e/frontal boundary slicing into southeast CA.

While these speeds are not extraordinary in a holistic sense, seasonally for the middle/end of May speeds in this range for these pressure levels extend towards the 99th percentile (though not nearly as extreme as points throughout northern AZ/S NV/UT where 40-45kt winds will be common). Interrogation of numerical guidance and high resolution model output indicates the strongest winds through SE CA late Friday afternoon approaching advisory criteria, but likely only really experiencing the full wind gust brunt over ridge tops and through terrain gaps. Have added the mention of blowing dust in this region though forecast speeds may not generate extensively dense dust, but rather more local dust channels and lofted diffuse dust. Of somewhat more concern is an elevated fire danger, especially through parts of the Colorado River valley though uncertainty regarding fuel conditions precludes a watch at this point; however, have mentioned an elevated danger in the appropriate forecast products..

AVIATION...

Southeast California/Southwest Arizona including KIPL and KBLH...

Confidence is high that the next low pressure system moving into the region today will bring gusty winds to both TAF sites. At KIPL winds will remain out of the southeast near 10 knots through the morning before switching to a more southwest direction this afternoon around 00Z. Winds will remain around 15-25 Kts with higher gusts up to 30 Kts until midnight when speeds begin to decrease.

Fig. A-6: A deepening low of the northern California coast on May 19 was forecasted to bring gusty winds of advisory strength and blowing dust to southeast California. Source: NWS Phoenix.

FIGURE A-7 STRONG WINDS ACROSS SOUTHEASTERN CALIFORNIA

CAZ061-200800-

COACHELLA VALLEY-

INCLUDING THE CITIES OF...INDIO...PALM SPRINGS...CATHEDRAL CITY...
PALM DESERT...PALM DESERT COUNTRY...LA QUINTA...COACHELLA

1000 AM PDT THU MAY 19 2016

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM PDT
SATURDAY...

.TODAY...MOSTLY SUNNY. HIGHS 96 TO 101. AREAS OF WINDS SOUTHEAST
15 MPH IN THE MORNING BECOMING LIGHT.

.TONIGHT...MOSTLY CLEAR. AREAS OF BLOWING SAND AND BLOWING DUST
OVERNIGHT. COOLER. LOWS 59 TO 67. AREAS OF WINDS WEST 20 TO
30 MPH WITH GUSTS TO 45 MPH BECOMING NORTH WITH GUSTS TO 40 MPH
OVERNIGHT.

.FRIDAY...MOSTLY SUNNY. AREAS OF BLOWING SAND AND BLOWING DUST IN
THE MORNING. AREAS OF BLOWING SAND AND BLOWING DUST IN THE
AFTERNOON. LOCAL VISIBILITY ONE QUARTER MILE OR LESS AT TIMES IN
THE AFTERNOON. HIGHS 86 TO 91. AREAS OF WINDS NORTH 15 TO 25 MPH
WITH GUSTS TO 40 MPH BECOMING SOUTHWEST 20 TO 30 MPH WITH GUSTS
TO 35 MPH IN THE AFTERNOON.

.FRIDAY NIGHT...MOSTLY CLEAR. AREAS OF BLOWING SAND AND BLOWING
DUST IN THE EVENING. LOCAL VISIBILITY ONE QUARTER MILE OR LESS AT
TIMES IN THE EVENING. LOWS 55 TO 60. AREAS OF WINDS WEST 25 TO
35 MPH WITH GUSTS TO 55 MPH BECOMING NORTH 15 TO 25 MPH WITH
GUSTS TO 40 MPH OVERNIGHT.

.SATURDAY...MOSTLY SUNNY. HIGHS 79 TO 84. AREAS OF WINDS NORTH
15 TO 20 MPH WITH GUSTS TO 30 MPH BECOMING WEST WITH GUSTS TO
25 MPH IN THE AFTERNOON.

CAZ062-200800-

SAN DIEGO COUNTY DESERTS-

INCLUDING THE CITY OF...BORREGO SPRINGS

1000 AM PDT THU MAY 19 2016

...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 3 AM PDT
SATURDAY...

.TODAY...MOSTLY SUNNY. HIGHS 95 TO 100. AREAS OF WINDS EAST
15 MPH BECOMING WEST WITH GUSTS TO 25 MPH IN THE AFTERNOON.

.TONIGHT...MOSTLY CLEAR. AREAS OF BLOWING SAND AND BLOWING DUST
IN THE EVENING. AREAS OF BLOWING SAND AND BLOWING DUST OVERNIGHT.
LOCAL VISIBILITY ONE QUARTER MILE OR LESS AT TIMES OVERNIGHT.
COOLER. LOWS 61 TO 68. AREAS OF WINDS WEST 25 TO 35 MPH. GUSTS TO
55 MPH...BECOMING 50 MPH OVERNIGHT.

.FRIDAY...MOSTLY SUNNY. AREAS OF BLOWING SAND AND BLOWING DUST.
LOCAL VISIBILITY ONE QUARTER MILE OR LESS AT TIMES. HIGHS 84 TO
89. AREAS OF WINDS WEST 20 TO 30 MPH WITH GUSTS TO 45 MPH...
BECOMING 30 TO 40 MPH WITH GUSTS TO 55 MPH IN THE AFTERNOON.

.FRIDAY NIGHT...MOSTLY CLEAR. AREAS OF BLOWING SAND AND BLOWING
DUST IN THE EVENING. LOCAL VISIBILITY ONE QUARTER MILE OR LESS AT
TIMES IN THE EVENING. COOLER. LOWS 53 TO 58. AREAS OF WINDS WEST
30 TO 40 MPH. GUSTS TO 65 MPH...BECOMING 55 MPH OVERNIGHT.

.SATURDAY...MOSTLY SUNNY. HIGHS 77 TO 82. AREAS OF WINDS WEST
20 TO 30 MPH. GUSTS TO 45 MPH...BECOMING 40 MPH IN THE AFTERNOON.

Fig. A-7: Wind Advisories went up on May 19 for the Coachella Valley area and the San Diego County deserts. These areas were upstream from Imperial County during the May 20-21 wind event. Source: NWS San Diego Zone Forecasts.

FIGURE A-8
STRONG WINDS ACROSS SOUTHEASTERN CALIFORNIA

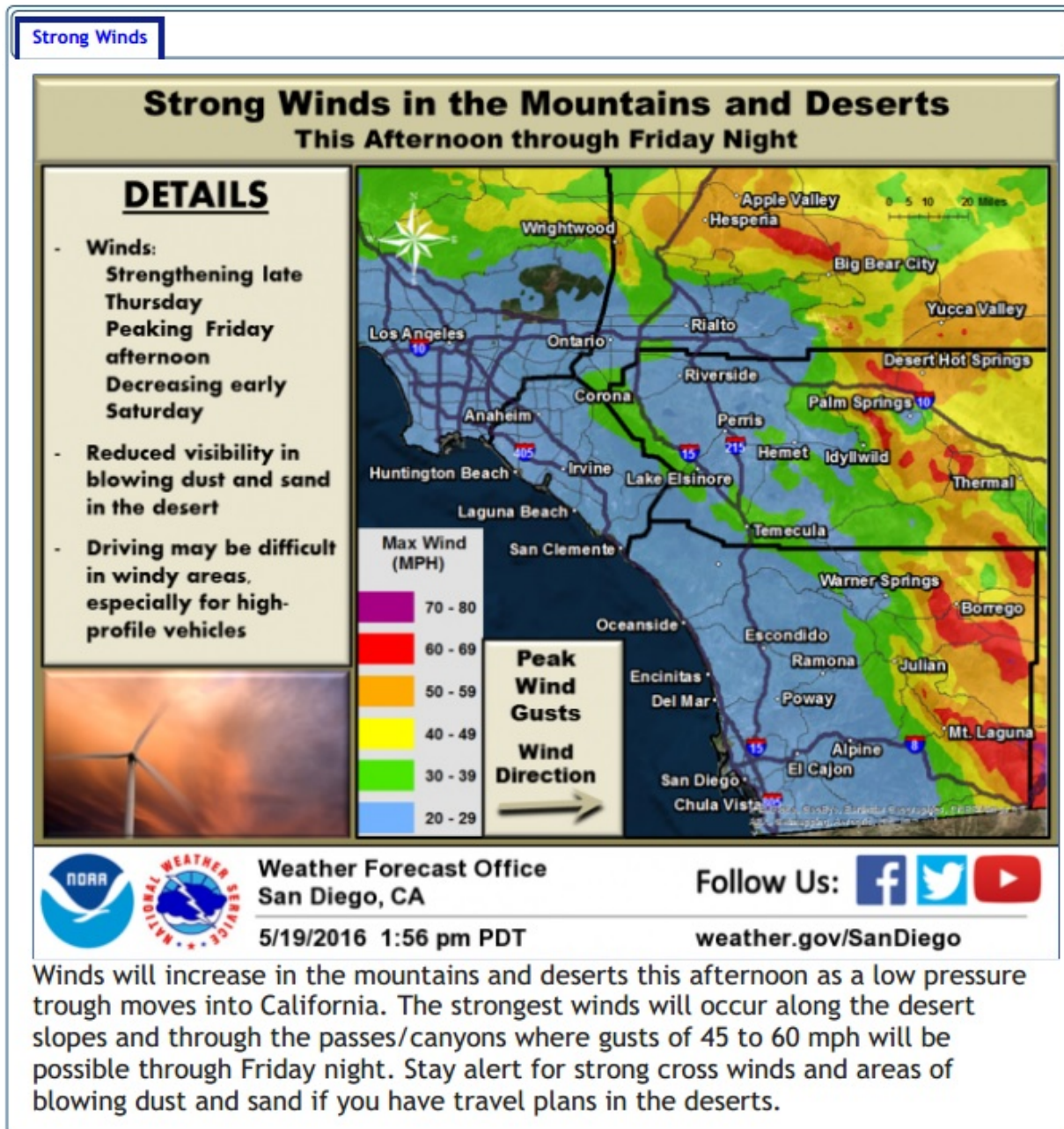


Fig. A-8: A May 19 Weather Story issued by the NWS forecasted that a winds across the region would be peaking on Friday, May 20. Source: NWS San Diego.

FIGURE A-9
WIND ADVISORY FOR IMPERIAL COUNTY

The screenshot shows the National Weather Service Forecast Office Phoenix, AZ website. The main content area displays a **Wind Advisory** issued on May 19, 2016, at 217 PM MST. The advisory is for Imperial County and the surrounding areas, including Joshua Tree National Park, Lower Colorado River Valley, and the Colorado River Valley. It states that a wind advisory is in effect from noon to 10 PM PDT Friday. The advisory includes details about the affected area, timing, and potential impacts, such as strong gusty winds and blowing dust. The website also features a sidebar with various links and a footer with contact information and a disclaimer.

National Weather Service Forecast Office
Phoenix, AZ

Home News Organization FAQ Share Search WR NWS ALL NOAA

Get Local Forecast for:
Enter location
Search Help

Current Hazards
Outlooks
Submit Report
Local Storm Reports

Current Conditions
Observations
Radar
Satellite
Precipitation
Rainfall Reports
NOAA Weather Radio

Forecasts
Forecast Discussion
Local Area
Activity Planner
Aviation Weather
Fire Weather
Severe Weather
Hurricane Center
User Defined Area
Travel
Air Quality
GIS

Hydrology
Rivers and Lakes
CBRFC

Climate
Local
National
Drought
More...
Climate portal

Weather Safety
Preparedness
Weather Radio
SkyWarn™
Heat Safety
Monsoon Safety

Additional Info
Items of Interest
Other Useful Links
Education Resources
COOP Observer
Our Office
Four Peaks Post
NWS News

Contact Us
Contact Info
Feedback
FAQ

USA.gov
Government of the United States

Wind Advisory

URGENT - WEATHER MESSAGE
NATIONAL WEATHER SERVICE PHOENIX AZ
217 PM MST THU MAY 19 2016

CAZ030>033-201230-
/O.NEW.KPSR.WI.Y.0011.160520T1900Z-160521T0500Z/
JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-
RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-
INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW..
LOST HORSE...BLYTHE...CHIRIACO SUMMIT...DESERT CENTER..
EAGLE MOUNTAIN...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS..
IMPERIAL...THE SALTON SEA
217 PM PDT THU MAY 19 2016

...WIND ADVISORY IN EFFECT FROM NOON TO 10 PM PDT FRIDAY..

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT FROM NOON TO 10 PM PDT FRIDAY.

* AFFECTED AREA...A LARGE PORTION OF SOUTHEAST CALIFORNIA INCLUDING JOSHUA TREE NATIONAL PARK, PORTIONS OF THE SALTON SEA, THE IMPERIAL VALLEY, AND AREAS NEAR THE COLORADO RIVER VALLEY.

* TIMING...WIND ADVISORY POSTED BETWEEN NOON AND 10 PM PDT FRIDAY.

* WINDS...INCREASING AFTERNOON SOUTHWEST WINDS 20 TO 30 MPH WITH GUSTS TO 40 MPH.

* IMPACTS...STRONG GUSTY WINDS HAVE THE POTENTIAL TO PRODUCE AREAS OF DENSE BLOWING DUST, AND SUDDEN WIND GUSTS AND CROSS WINDS HAZARDOUS TO VEHICULAR TRAFFIC.

PRECAUTIONARY/PREPAREDNESS ACTIONS..

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 50 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

Webmaster
US Dept of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
Phoenix Weather Forecast Office
P.O. Box 52025
Phoenix, AZ 85072
Tel: (602) 275-0073

Disclaimer
Information Quality
Credits
Glossary
Organization

Privacy Policy
Freedom of Information Act
About Us
Career Opportunities

Fig. A-9: A Wind Advisory was issued by the NWS for Imperial County on May 19 in anticipation of high winds expected on May 20. Source: NWS San Diego.

FIGURE A-10
WIND ADVISORY FOR IMPERIAL COUNTY

El Centro, CA

Your Radar | Current Conditions | 15-Day Forecast

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

217 PM MST THU MAY 19 2016

...**WIND ADVISORY IN EFFECT FROM NOON TO 10 PM PDT FRIDAY...**

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT FROM NOON TO 10 PM PDT FRIDAY.

* AFFECTED AREA...**A LARGE PORTION OF SOUTHEAST CALIFORNIA** INCLUDING

JOSHUA TREE NATIONAL PARK, PORTIONS OF THE SALTON SEA, **THE IMPERIAL**

VALLEY, AND AREAS NEAR THE COLORADO RIVER VALLEY.

* TIMING...WIND ADVISORY POSTED BETWEEN NOON AND 10 PM PDT FRIDAY.

* **WINDS...INCREASING AFTERNOON SOUTHWEST WINDS 20 TO 30 MPH**

WITH

GUSTS TO 40 MPH.

* **IMPACTS...STRONG GUSTY WINDS HAVE THE POTENTIAL TO PRODUCE AREAS OF**

DENSE BLOWING DUST, AND SUDDEN WIND GUSTS AND CROSS WINDS

HAZARDOUS TO VEHICULAR TRAFFIC.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN

30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND

58 MPH. WINDS THIS STRONG CAN MAKE DRIVING

DIFFICULT...ESPECIALLY

FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT

AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER

A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

Fig. A-10: A Wind Advisory was issued by the NWS for Imperial County on May 19 in anticipation of high winds expected on May 20. Source: AccuWeather.com.

FIGURE A-11
STRONG WINDS AND BLOWING DUST FOR EL CENTRO & SOUTHEASTERN CALIFORNIA

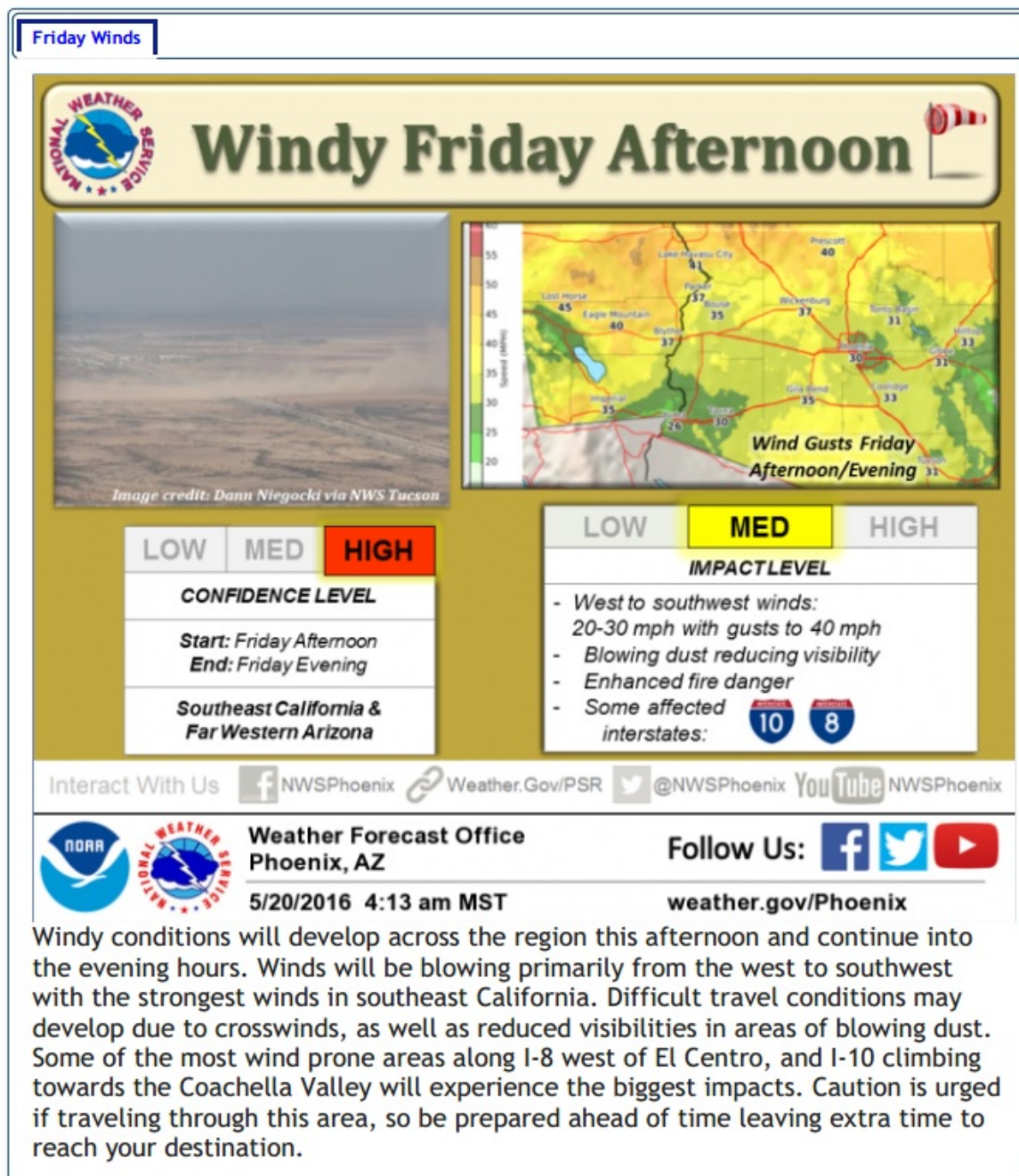


Fig. A-11: On May 20 a Weather Story issued by the NWS forecasted gusty winds and blowing dust in the vicinity of El Centro in Imperial County, with strong winds all across southeastern California. Source: NWS Phoenix.

FIGURE A-12
REGIONAL WIND EVENT IMPACTED FOUR STATES

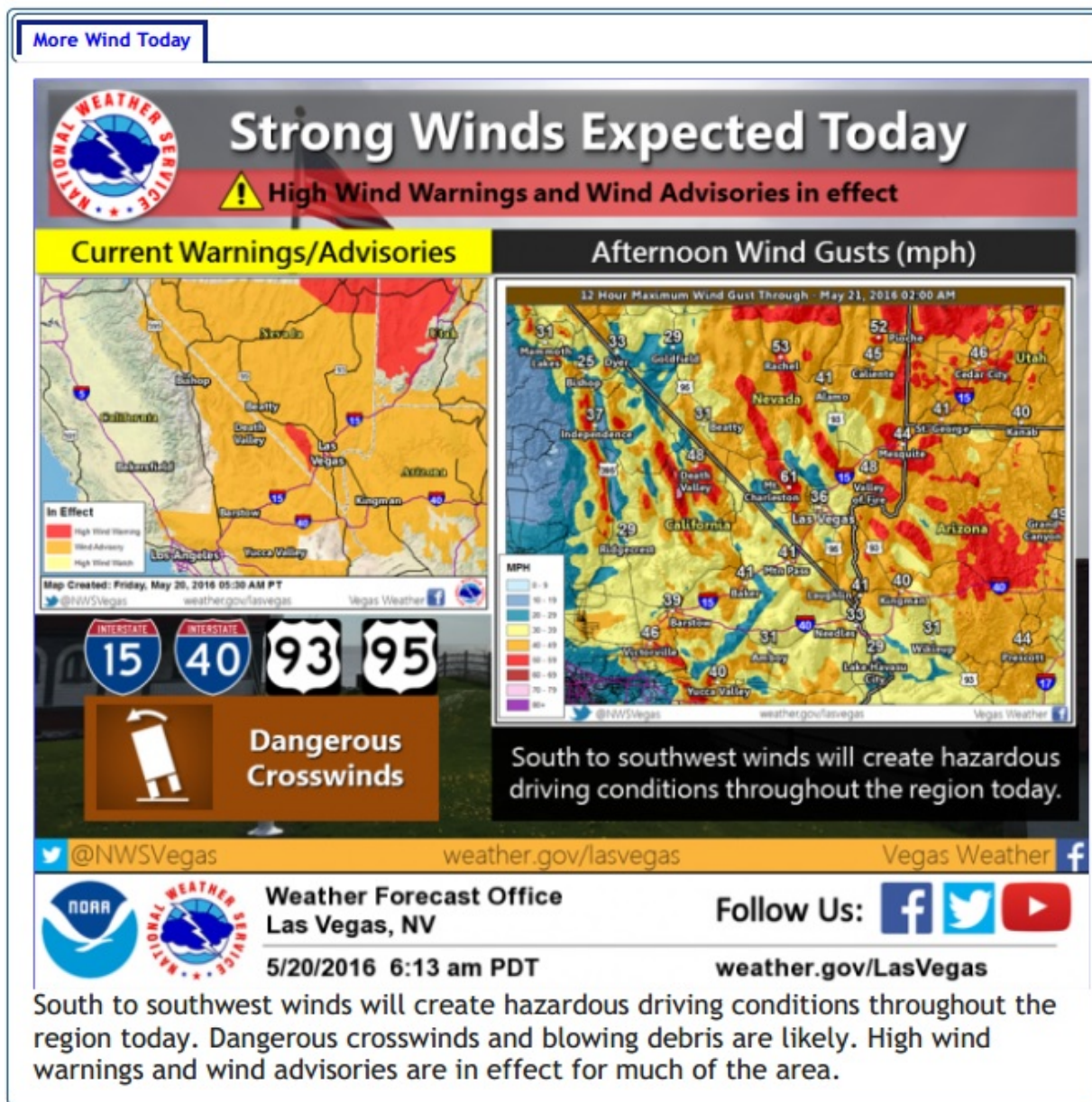


Fig. A-12: The weather system that generated the high winds was so massive that the NWS forecasted high winds across southeastern California, western Arizona, southern Nevada, and portions of New Mexico. Source: NWS Las Vegas.

FIGURE A-13
STRONG WINDS AND BLOWING DUST FOR THE DESERTS

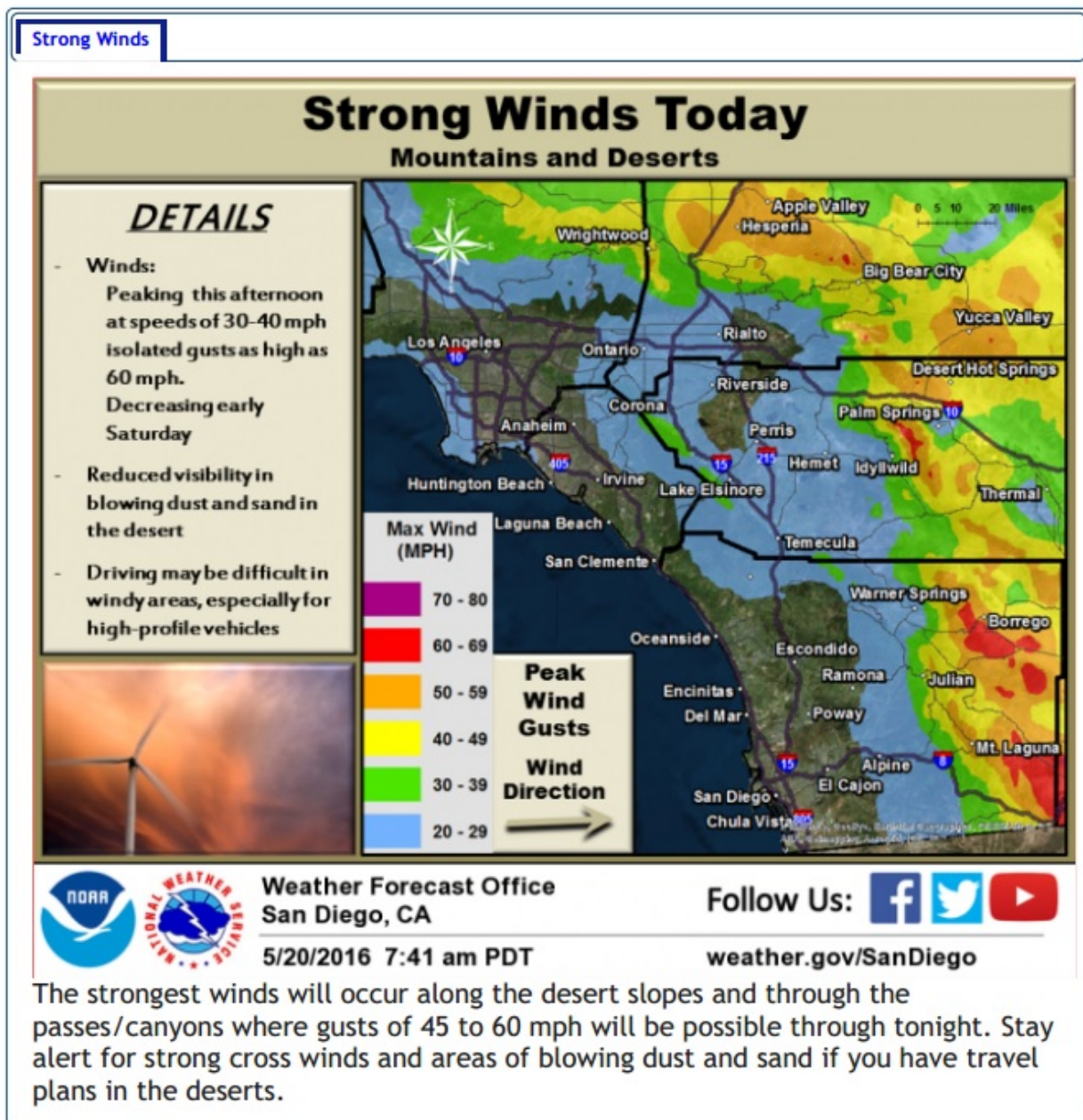


Fig. A-13: On May 20 a Weather Story issued by the NWS forecasted gusty winds and blowing dust for the desert slopes. These areas were immediately upstream of Imperial County. Source: NWS San Diego.

FIGURE A-14
STRONG WINDS AND BLOWING DUST FOR THE DESERTS

National Weather Service Forecast Office
Phoenix, AZ

Home News Organization FAQ Share Search ☐ WR ☐ NWS ☐ ALL NOAA

Get Local Forecast for:
 Enter location
 Search Help
 f t y
 XML RSS Feeds

Current Hazards
 Outlooks
 Submit Report
 Local Storm Reports

Current Conditions
 Observations
 Radar
 Satellite
 Precipitation
 Rainfall Reports
 NOAA Weather Radio

Forecasts
 Forecast Discussion
 Local Area
 Activity Planner
 Aviation Weather
 Fire Weather
 Severe Weather
 Hurricane Center
 User Defined Area
 Travel
 Air Quality
 GIS

Hydrology
 Rivers and Lakes
 CBRFC

Climate
 Local
 National
 Drought
 More...
 Climate portal

Weather Safety
 Preparedness
 Weather Radio
 SkyWarn™
 Heat Safety
 Monsoon Safety

Additional Info
 Items of Interest
 Other Useful Links
 Education Resources
 COOP Observer
 Our Office
 Four Peaks Post
 NWS News

Contact Us
 Contact Info
 Feedback
 FAQ

Area Forecast Discussion

• Go Back • Print Friendly • Version: 40 Newer Older • Font: A A A A •
 • Turn Dictionary Off • Product FAQ •
 This is NOT the current version and may no longer be valid.

FXUS65 KPSR 201751
 AFDPSR

Area Forecast Discussion
 National Weather Service Phoenix AZ
 1050 AM MST FRI MAY 20 2016

.SYNOPSIS...

A large Pacific weather disturbance will move into the western states through the end of the week, eventually lifting north of Arizona over the weekend. This system will bring breezy and cooler than normal temperatures back to the region. Although winds will subside next week, slightly below average temperatures will persist throughout the region.

&&

.DISCUSSION...

Strong upper low continued to spin along the northern California and Pacific northwest coast this morning, giving a dry and increasing southwesterly flow aloft into far southeast CA and southern Arizona. 12z plot data showed the main upper height falls still well to our northwest, and over north/central CA, with only 10-40m falls over our western deserts. Latest IR imagery showed sunny skies area wide, and surface dewpoints over the central deserts were mostly in the mid 40s. As gradients continued to tighten and mixing increases we will see breezy to windy conditions develop this afternoon with the strongest winds to occur over southeast California. Low level winds such as 850/925mb continue to be well above climo normal values for this time of year and in the 25-30kt range and with this dynamic system setting up to our west, we will see winds reaching advisory criteria in favored areas of southeast CA such as Joshua Tree National Park and portions of the Imperial Valley. Otherwise winds will simply be breezy in the central Arizona deserts this afternoon, staying below criteria. For the rest of today expect sunny skies and increasing wind along with high temperatures not far from seasonal normals.

.PREVIOUS DISCUSSION...A deepening PV anomaly was descending into northern California early this morning per WV satellite imagery with objective analysis depicting 120m H5 height falls associated with the vorticity center surging down the west coast. Within the leading diffluent jet nose, sfc pressure falls were occurring across eastern California/southern Nevada where a 994mb cyclone has intensified. However, the primary lower level theta-e boundary remains trapped over the California coastal range, and the tightest gradient currently trails this boundary. Currently analyzed wind speeds in the H9-H7 layer of 15-25kt should increase somewhat this afternoon as the overall synoptic gradient tightens while approaching height falls aloft and stronger seasonal insolation promotes deep mixing depths and tapping of high momentum air.

Little has changed in overall forecast thinking with model output still suggesting wind speeds in the H8-H7 layer late this afternoon and evening approaching the seasonally adjusted 95th percentile throughout much of SE CA/far western AZ. Far stronger and seasonally rare winds (H7 40-50kt range) will be common further to the north in

Fig. A-14: On May 20 the NWS Phoenix office forecasted that a Pacific weather disturbance would move into the region. The low pressure was expected to increase gradients and bring advisory-strength winds to southeast California. Winds were expected to be above climate normal values for this time of year.

FIGURE A-15
REGIONAL WIND EVENT REACHED INTO THE ANTELOPE VALLEY



Fig. A-15: The wind event was regional in its impact. As a result, areas as far away as the Antelope Valley were impacted by the vigorous weather system that moved through the region. Source: NWS Los Angeles/Oxnard.

FIGURE A-16
STRONG GUSTY WINDS CONTINUE IN THE DESERT

URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE SAN DIEGO CA
 143 PM PDT FRI MAY 20 2016
 ...STRONG GUSTY WEST WINDS IN THE MOUNTAINS AND DESERTS THROUGH TONIGHT...
 .A LOW PRESSURE SYSTEM OVER THE PACIFIC NORTHWEST WILL BRING STRONG WEST WINDS TO THE MOUNTAINS AND DESERTS THIS AFTERNOON AND TONIGHT. WINDS WILL DECREASE EARLY SATURDAY...BUT REMAIN BREEZY THROUGH THE WEEKEND.
 CAZ055-056-058-060>062-065-210400-
 /O.CON.KSGX.WI.Y.0030.000000T0000Z-160521T1000Z/
 SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-
 SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-
 COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-
 SAN GORGONIO PASS NEAR BANNING-
 INCLUDING THE CITIES OF...CRESTLINE...LAKE ARROWHEAD...
 BIG BEAR CITY...BIG BEAR LAKE...WRIGHTWOOD...JULIAN...
 VICTORVILLE...HESPERIA...APPLE VALLEY...CATHEDRAL CITY...
 PALM DESERT...PALM DESERT COUNTRY...LA QUINTA...BORREGO SPRINGS...
 DESERT HOT SPRINGS
 143 PM PDT FRI MAY 20 2016
 ...WIND ADVISORY REMAINS IN EFFECT UNTIL 3 AM PDT SATURDAY...
 * WINDS...AREAS OF WEST WINDS 20 TO 30 MPH WITH GUSTS TO 50 MPH. ISOLATED GUSTS TO 60 MPH.
 * LOCATION...STRONGEST WINDS NEAR MOUNTAIN RIDGE TOPS AND ALONG DESERT MOUNTAIN SLOPES INTO ADJACENT DESERT AREAS.
 * VISIBILITY...REDUCED AT TIMES IN THE DESERTS IN BLOWING DUST AND BLOWING SAND.
 * IMPACTS...THE WINDS WILL MAKE DRIVING DIFFICULT...ESPECIALLY FOR MOTORISTS WITH HIGH PROFILE VEHICLES. WATCH FOR BROKEN TREE LIMBS AND DOWNED POWER LINES.
 * OUTLOOK...DIMINISHING WINDS SATURDAY MORNING...BUT CONTINUED BREEZY THROUGH THE WEEKEND.

Fig. A-16: Gusty winds with blowing dust were expected to continue through May 20 and remain breezy through the weekend. Source: NWS Watch, Warning, Advisory Summary;<http://forecast.weather.gov/wwamap/wwatxtget.php?cwa=sgx&wwa=wind%20advisory>.

FIGURE A-17
STRONG GUSTY WINDS AFFECT A WIDE AREA

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE LAS VEGAS NV

150 PM PDT FRI MAY 20 2016

...STRONG WINDS TO CONTINUE THROUGH THIS AFTERNOON AND EARLY EVENING...

.A WEATHER SYSTEM WILL BRING STRONG WINDS TO THE AREA THROUGH THIS EVENING BEFORE GRADUALLY DIMINISHING SATURDAY. DOWNSLOPE WINDS ARE LIKELY TO CONTINUE IN THE SPRING MOUNTAINS THROUGH SATURDAY MORNING. AREAS OF BLOWING DUST CAN BE EXPECTED.

AZZ001>003-036-CAZ521-523>525-527-NVZ016-018-020>022-210315-
/O.CON.KVEF.WI.Y.0024.000000T0000Z-160521T0600Z/

NORTHWEST PLATEAU-LAKE HAVASU AND FORT MOHAVE-NORTHWEST DESERTS-
LAKE MEAD NATIONAL RECREATION AREA-WHITE MOUNTAINS OF INYO COUNTY-
WESTERN MOJAVE DESERT-EASTERN MOJAVE DESERT-MORONGO BASIN-
SAN BERNARDINO COUNTY-UPPER COLORADO RIVER VALLEY-
NORTHEAST CLARK COUNTY-SHEEP RANGE-LAS VEGAS VALLEY-
SOUTHERN CLARK COUNTY-

INCLUDING THE CITIES OF...COLORADO CITY...

PIPE SPRING NATIONAL MONUMENT...TUWEET...MT TRUMBELL...

WESTERN GRAND CANYON...LAKE HAVASU CITY...DESERT HILLS...TOPOCK...

KINGMAN...GOLDEN VALLEY...DOLAN SPRINGS...VALENTINE...WIKIEUP...

YUCCA...BULLHEAD CITY...OATMAN...MOHAVE VALLEY...WESTGARD PASS...

BRISTLECONE PINE...BARSTOW...DAGGETT...FORT IRWIN...BAKER...

MOUNTAIN PASS...MITCHELL CAVERNS...MORONGO VALLEY...

YUCCA VALLEY...TWENTYNINE PALMS...NEEDLES...MESQUITE...OVERTON...

MOAPA...LAS VEGAS...NORTH LAS VEGAS...HENDERSON...BOULDER CITY...

HOOVER DAM...LAUGHLIN...PRIMM...SEARCHLIGHT...CAL-NEV-ARI

150 PM PDT FRI MAY 20 2016 /150 PM MST FRI MAY 20 2016/

...WIND ADVISORY REMAINS IN EFFECT UNTIL 11 PM PDT /11 PM MST/
THIS EVENING...

* TIMING...WINDS ARE EXPECTED TO INCREASE LATER THIS MORNING AND
PEAK THIS AFTERNOON AND EARLY EVENING BEFORE DIMINISHING.

* WINDS...SOUTHWEST WINDS OF 25 TO 35 MPH WITH GUSTS TO 50 MPH
WILL BE POSSIBLE THROUGH THIS EVENING.

* IMPACTS...TRAVEL MAY BE DIFFICULT DUE TO STRONG CROSSWINDS.
TEMPORARY STRUCTURES MAY BE DAMAGED OR DISPLACED. POCKETS OF
BLOWING DUST MAY REDUCE VISIBILITY AND MAKE TRAVEL HAZARDOUS.
PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 40 MPH OR GREATER ARE
EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...
ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

Fig. A-17: Gusty winds with blowing dust were expected across a wide region that included the Las Vegas forecast zone. Source: NWS Watch, Warning, Advisory Summary;<http://forecast.weather.gov/wwamap/wwatxtget.php?cwa=sgx&wwa=wind%20advisory>.

FIGURE A-18 PACKED PRESSURE GRADIENT REMAINS STRONG – MAY 20



Fig. A-18: Winds were forecasted to remain strong through May 20 due to a strong onshore gradient. Source: NWS San Diego;
http://www.wrh.noaa.gov/total_forecast/getprod.php?prod=XXXAFDSGX&wfo=SGX.

FIGURE A-19
WIND ADVISORY REMAINS IN EFFECT – MAY 20

Wind Advisory

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

210 PM MST FRI MAY 20 2016

CAZ030>033-210500-

/O.CON.KPSR.WI.Y.0011.000000T0000Z-160521T0500Z/

JOSHUA TREE NATIONAL PARK-LOWER COLORADO RIVER VALLEY CA-

RIVERSIDE COUNTY/EASTERN DESERTS-IMPERIAL COUNTY-

INCLUDING THE CITIES OF...COTTONWOOD VISITOR CENTER...KEYS VIEW...

LOST HORSE...BLYTHE...CHIRIACO SUMMIT...DESERT CENTER...

EAGLE MOUNTAIN...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...

IMPERIAL...THE SALTON SEA

210 PM PDT FRI MAY 20 2016

...WIND ADVISORY REMAINS IN EFFECT UNTIL 10 PM PDT THIS EVENING...

*** AFFECTED AREA...A LARGE PORTION OF SOUTHEAST CALIFORNIA**

**INCLUDING JOSHUA TREE NATIONAL PARK...PORTIONS OF THE SALTON
SEA...AND IMPERIAL VALLEY.**

*** TIMING...THIS AFTERNOON AND EVENING.**

*** WINDS...SOUTHWEST WINDS INCREASING 20 TO 30 MPH WITH GUSTS TO
40 MPH.**

*** IMPACTS...STRONG GUSTY WINDS HAVE THE POTENTIAL TO PRODUCE AREAS OF
DENSE BLOWING DUST...REDUCED VISIBILITIES...WITH SUDDEN GUSTS AND
CROSS WINDS HAZARDOUS TO HIGH PROFILE VEHICLES.**

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN
30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND
58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER
A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
CAUTION.

Fig. A-19: On Friday, May 20, the Wind Advisory for Imperial County and neighboring areas remained in effect. Source: National Weather Service Watch Warning Advisory Summary;http://forecast.weather.gov/showsigwx.php?warnzone=CAZ033&warncounty=CAC025&firewxzone=CAZ232&local_place1=Imperial%20CA&product1=Wind+...

FIGURE A-20

GUSTY WINDS & BLOWING DUST ACROSS SOUTHEAST CALIFORNIA – MAY 20



Fig. A-20: Winds were forecasted to remain strong across Imperial County with patchy blowing dust expected. Source: NWS Phoenix;
http://www.wr.noaa.gov/total_forecast/getprod.php?prod=XXXAFDPSR&wfo=PSR.

FIGURE A-21
GUSTY WINDS & BLOWING DUST ACROSS SOUTHEAST CALIFORNIA – MAY 20



Fig. A-21: Strong winds were expected to continue across the mountains and deserts, while a Wind Advisory remained in place through 3 a.m. on Saturday, May 21. Source: NWS San Diego.

FIGURE A-22
BLOWING DUST ADVISORY FOR IMPERIAL COUNTY – MAY 20

El Centro, CA

[Your Radar](#) | [Current Conditions](#) | [15-Day Forecast](#)

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

956 PM MST FRI MAY 20 2016

...GUSTY WINDS IN IMPERIAL COUNTY.....JOSHUA TREE NATIONAL PARK...AND THE LOWER COLORADO RIVER VALLEY DIMINISHING THIS EVENING...

...BLOWING DUST ADVISORY IN EFFECT UNTIL MIDNIGHT PDT TONIGHT...

...WIND ADVISORY NOW IN EFFECT UNTIL MIDNIGHT PDT TONIGHT... THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A BLOWING DUST

ADVISORY...WHICH IS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT.

*** AFFECTED AREA...A LARGE PORTION OF SOUTHEAST CALIFORNIA INCLUDING JOSHUA TREE NATIONAL PARK...PORTIONS OF THE SALTON**

SEA...AND IMPERIAL VALLEY.

* TIMING...THIS AFTERNOON AND EVENING.

* WINDS...SOUTHWEST WINDS 20 TO 30 MPH WITH GUSTS TO 40 MPH.

* VISIBILITY...FALLING BELOW 1 MILE AT TIMES.

*** IMPACTS...STRONG GUSTY WINDS HAVE THE POTENTIAL TO PRODUCE**

AREAS OF DENSE BLOWING DUST...REDUCED VISIBILITIES...WITH SUDDEN GUSTS AND CROSS WINDS HAZARDOUS TO HIGH PROFILE VEHICLES.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN

30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND

58 MPH. WINDS THIS STRONG CAN MAKE DRIVING

DIFFICULT...ESPECIALLY

FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT

AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER

A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION.

BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT

Fig. A-22: A Blowing Dust Advisory was issued for Imperial County at 9:56 MST on May 20. Source: AccuWeather.

FIGURE A-23
BLOWING DUST ADVISORY & WIND ADVISORY EXTENDED UNTIL 2 A.M.
FOR IMPERIAL COUNTY – MAY 21

El Centro, CA
 Your Radar | Current Conditions | 15-Day Forecast
 URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE PHOENIX AZ
 1204 AM MST SAT MAY 21 2016
 ...**BLOWING DUST ADVISORY IN EFFECT UNTIL 2 AM PDT EARLY THIS MORNING...**
 ...**WIND ADVISORY IN EFFECT UNTIL 2 AM PDT EARLY THIS MORNING...**
 THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A
 BLOWING DUST
 ADVISORY...WHICH IS IN EFFECT UNTIL 2 AM PDT EARLY THIS
 MORNING.
 A WIND ADVISORY HAS ALSO BEEN ISSUED. THIS WIND ADVISORY IS
 IN
 EFFECT UNTIL 2 AM PDT EARLY THIS MORNING.
 * **AFFECTED AREA...SOUTHWEST IMPERIAL COUNTY INCLUDING**
INTERSTATE 8
WEST OF EL CENTRO.
 * TIMING...TONIGHT THROUGH 2 AM
 * WINDS...SOUTHWEST WINDS 20 TO 30 MPH WITH GUSTS TO 40 MPH.
 * VISIBILITY...FALLING BELOW 1 MILE AT TIMES.
 * IMPACTS...STRONG GUSTY WINDS HAVE PRODUCED AREAS OF
 BLOWING
 DUST...REDUCED VISIBILITIES...WITH SUDDEN GUSTS AND CROSS
 WINDS
 HAZARDOUS TO HIGH PROFILE VEHICLES.
 PRECAUTIONARY/PREPAREDNESS ACTIONS...
 BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER
 BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT
 APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT
 YOUR
 VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP
 YOUR
 FOOT OFF THE BRAKE PEDAL.
 REMEMBER...PULL ASIDE...STAY ALIVE.
 A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF
 BETWEEN
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40
 AND
 58 MPH. WINDS THIS STRONG CAN MAKE DRIVING
 DIFFICULT...ESPECIALLY
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER
 DESERT
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL
 UNDER
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
 CAUTION

Fig. A-23: The Blowing Dust Advisory and Wind Advisory that was previously in effect through midnight May 20 was extended until 2 a.m. May 21. Source: AccuWeather.

FIGURE A-24
BLOWING DUST ADVISORY & WIND ADVISORY EXTENDED UNTIL 3 A.M.
FOR IMPERIAL COUNTY – MAY 21

El Centro, CA
[Your Radar](#) | [Current Conditions](#) | [15-Day Forecast](#)
 URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE PHOENIX AZ
 151 AM MST SAT MAY 21 2016
 ...**BLOWING DUST ADVISORY NOW IN EFFECT UNTIL 3 AM** PDT EARLY
 THIS
 MORNING...
 ...**WIND ADVISORY NOW IN EFFECT UNTIL 3 AM** PDT EARLY THIS
 MORNING...
 * AFFECTED AREA...SOUTHWEST IMPERIAL COUNTY INCLUDING
 INTERSTATE
 8 WEST OF EL CENTRO.
 * TIMING...EARLY THIS MORNING THROUGH 3 AM.
 * WINDS...SOUTHWEST WINDS 25 TO 30 MPH WITH GUSTS TO 40 MPH.
 * VISIBILITY...FALLING BELOW 1 MILE AT TIMES.
 * IMPACTS...STRONG GUSTY WINDS HAVE PRODUCED AREAS OF
 BLOWING
 DUST...REDUCED VISIBILITIES...WITH SUDDEN GUSTS AND CROSS
 WINDS HAZARDOUS TO HIGH PROFILE VEHICLES.
 PRECAUTIONARY/PREPAREDNESS ACTIONS...
 BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER
 BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT
 APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT
 YOUR
 VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP
 YOUR
 FOOT OFF THE BRAKE PEDAL.
 REMEMBER...PULL ASIDE...STAY ALIVE.
 A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF
 BETWEEN
 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40
 AND
 58 MPH. WINDS THIS STRONG CAN MAKE DRIVING
 DIFFICULT...ESPECIALLY
 FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER
 DESERT
 AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL
 UNDER
 A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA
 CAUTION.

Fig. A-24: The Blowing Dust Advisory and Wind Advisory that was previously in effect through 2 a.m. May 21 was extended until 3 a.m. May 21. Source: AccuWeather.

FIGURE A-25
BLOWING DUST ADVISORY & WIND ADVISORY EXTENDED UNTIL 5 A.M.
FOR IMPERIAL COUNTY – MAY 21

El Centro, CA
[Your Radar](#) | [Current Conditions](#) | [15-Day Forecast](#)
 URGENT - WEATHER MESSAGE
 NATIONAL WEATHER SERVICE PHOENIX AZ
 257 AM MST SAT MAY 21 2016
...BLOWING DUST ADVISORY NOW IN EFFECT UNTIL 5 AM PDT EARLY THIS MORNING...
...WIND ADVISORY NOW IN EFFECT UNTIL 5 AM PDT EARLY THIS MORNING...
 * **AFFECTED AREA...SOUTHWEST IMPERIAL COUNTY INCLUDING INTERSTATE 8 WEST OF EL CENTRO.**
 * TIMING...EARLY THIS MORNING THROUGH 5 AM.
 * WINDS...SOUTHWEST WINDS 25 TO 30 MPH WITH GUSTS TO 40 MPH.
 * VISIBILITY...FALLING BELOW 1 MILE AT TIMES.
 * **IMPACTS...STRONG GUSTY WINDS HAVE PRODUCED AREAS OF BLOWING DUST...REDUCED VISIBILITIES...WITH SUDDEN GUSTS AND CROSS WINDS HAZARDOUS TO HIGH PROFILE VEHICLES.**
 PRECAUTIONARY/PREPAREDNESS ACTIONS...
 BE READY FOR A SUDDEN DROP IN VISIBILITY. IF YOU ENCOUNTER BLOWING DUST OR BLOWING SAND ON THE ROADWAY OR SEE IT APPROACHING...PULL OFF THE ROAD AS FAR AS POSSIBLE AND PUT YOUR VEHICLE IN PARK. TURN THE LIGHTS ALL THE WAY OFF AND KEEP YOUR FOOT OFF THE BRAKE PEDAL.
 REMEMBER...PULL ASIDE...STAY ALIVE.
 A WIND ADVISORY MEANS THAT SUSTAINED WIND SPEEDS OF BETWEEN 30 AND 40 MPH ARE EXPECTED...OR WIND GUSTS OF BETWEEN 40 AND 58 MPH. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT AREAS COULD RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT TIMES IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION

Fig. A-25: The Blowing Dust Advisory and Wind Advisory from May 20 was re-issued and extended until 5 a.m. on May 21. Source: AccuWeather.com

FIGURE A-26 GUSTY WINDS TO CONTINUE THROUGH MAY 21

www.weather.gov

National Weather Service Forecast Office
San Diego, CA

Home News Organization FAQ Share Search ☐ WR ☐ NWS ☐ ALL NOAA

Get Local Forecast for:

[Search Help](#)

Current Hazards
 Outlooks
 Submit Report

Current Conditions
 Observations
 Radar
 Satellite
 Precipitation
 Mapped Weather
 Other Hazards

Forecasts
 Forecast Discussion
 Local Area
 Activity Planner
 Aviation Weather
 Fire Weather
 Marine Weather
 Severe Weather
 Hurricane Center
 User Defined Area
 Travel
 Fastlinks

Hydrology
 Rivers and Lakes
 Forecasts / Obs

Climate
 Local
 National
 Drought
 More...
 Climate portal

Weather Safety
 Preparedness
 Weather Radio
 SkyWarn™
 StormReady
 TsunamiReady

Additional Info
 Items of Interest
 Other Useful Links
 Education Resources
 COOP Observer
 Our Office
 NWS News

Contact Us
 Contact Info
 Feedback
 FAQ

Area Forecast Discussion

• [Go Back](#) • [Print Friendly](#) • Version: **10** [Newer](#) [Older](#) [Jump To:](#) • Font: **A A A** •
 • [Turn Dictionary Off](#) • [Product FAQ](#) •
 This is NOT the current version and may no longer be valid.

FXUS66 KSGX 211653
 AFDSGX

AREA FORECAST DISCUSSION
 National Weather Service San Diego CA
 930 AM PDT SAT MAY 21 2016

.SYNOPSIS...
 A trough of low pressure over the western United States will bring below normal temperatures most of the next week. There will be occasional low clouds from the coast to the mountains, with patchy fog in the mountains. There will continue to be periods of gusty west winds in the mountains and deserts, strongest during the late afternoon and evening each day.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

Low clouds, but with a lot of breaks, covered most areas from the coast to the higher coastal mountain slopes as the marine layer was about 6000 feet deep. With the very cool air mass in place due to the trough, most areas west of the mountains will have highs only in the 60s today, and even in some parts of the lower deserts will only be in the 70s due to 850 MB temperatures being mostly in the 10-12 deg C range there. Enough of a thermal gradient between the valleys and deserts will still exist for moderately strong winds on the desert mountain slopes and into the deserts, but with pressure gradients weaker today, the peak gust potential is in the 40-50 MPH range versus over 50 MPH as was the case Friday.

The upper low is currently over far NW Nevada and will move NE today. However, another wave will move down the west side of the low into central California, and subsequent waves will move down the back side of the trough to maintain it through at least midweek. Even though temperatures should be a few degrees higher Sunday due to a warmer profile and higher pressure levels, temperatures will remain below normal through next week with greatest departures from normal for daytime temperatures occurring in the valleys and mountains, at times 20 or more deg F below normal for highs when colder air aloft with waves moves through. Stratus will be variable and will cover most areas from the coast to the mountain slopes, though the cold air aloft will keep the inversion strength relatively weak, so the stratus will mostly be broken versus overcast. Local WRF does indicate some lowering of the stratus by Sunday night, so the mountains may get a little reprieve then before more waves deepen the marine layer again on following days. The upper trough should temporarily weaken around Thursday before another trough moves down from the N/NW and brings more cool weather and occasional cloudiness. Some drizzle or very light showers could accompany a few of the waves, especially if they have a nocturnal passage, but the marine layer moisture will be insufficient for another more than a few hundredths of an inch. Onshore flow and continued valley-desert thermal gradients will keep the mountains and deserts breezy most of next week, though most likely below wind advisory criteria.

Fig. A-26: Gusty winds were expected to continue through May 21. Source: NWS San Diego.

FIGURE A-27
WIND ADVISORY EXTENDED UNTIL 5 P.M.
FOR IMPERIAL COUNTY – MAY 21

El Centro, CA

Your Radar | Current Conditions | 15-Day Forecast

URGENT - WEATHER MESSAGE

NATIONAL WEATHER SERVICE PHOENIX AZ

124 PM MST SAT MAY 21 2016

...STRONG WINDS LATE THIS AFTERNOON AND EVENING OVER
 IMPERIAL COUNTY...

**...WIND ADVISORY IN EFFECT FROM 5 PM THIS AFTERNOON TO 10 PM
 PDT**

THIS EVENING...

THE NATIONAL WEATHER SERVICE IN PHOENIX HAS ISSUED A WIND
 ADVISORY...WHICH IS IN EFFECT FROM 5 PM THIS AFTERNOON TO 10
 PM

PDT THIS EVENING.

* **AFFECTED AREA...IMPERIAL COUNTY - PRIMARILY WESTERN AND
 CENTRAL
 PORTIONS INCLUDING EL CENTRO...SEELEY...INTERSTATE 8...AND
 SALTON**

CITY.

* **TIMING...BREEZY CONDITIONS BECOME VERY WINDY BY 5 PM THEN
 DECREASE
 SIGNIFICANTLY BY 10 PM.**

* **WINDS...FROM THE WEST 20-30 MPH WITH GUSTS TO 40 MPH.**

* **IMPACTS...HAZARDOUS DRIVING CONDITIONS DUE TO LOCALIZED
 BLOWING**

DUST AND SAND REDUCING VISIBILITY AS LOW AS 1 MILE. OPEN
 HIGHWAYS

SUCH AS I-8 WEST OF EL CENTRO AND HIGHWAY 86 WILL BE MORE
 VULNERABLE. THERE WILL ALSO BE STRONG CROSS-WINDS ON
 NORTH-SOUTH
 ORIENTED ROADWAYS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY
 FOR HIGH

PROFILE VEHICLES. IN ADDITION...STRONG WINDS OVER DESERT
 AREAS COULD

RESULT IN BRIEFLY LOWERED VISIBILITIES TO WELL UNDER A MILE AT
 TIMES

IN BLOWING DUST OR BLOWING SAND. USE EXTRA CAUTION

Fig. A-28: The Wind Advisory that was previously in effect through 5 a.m. May 21 was extended until 5 p.m. May 21. Source: AccuWeather.

FIGURE A-29
BLOWING DUST/SAND OVER IMPERIAL COUNTY – MAY 20

Friday, May 20, 2016

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN
SATELLITE IMAGERY

THROUGH 0300Z May 21, 2016

DUST:

Southern California/Southwestern Arizona:

A streak of moderately dense to thick blowing dust originated during the afternoon from a source primarily on the south side of the Salton Sea in southern California and moved to the east and southeast reaching southwestern Arizona just before sunset. Much thinner density blowing dust extended farther to the east over south central Arizona.

Fig. A-29: OAA's Satellite Service Division Smoke Text Product identified blowing dust/sand coming from the vicinity of the Salton Sea. The notice was effective through 1900 PST May 20.

Source: <http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2016/2016E210325.html>.

FIGURE A-30
BLOWING DUST/SAND OVER IMPERIAL COUNTY – MAY 21

DESCRIPTIVE TEXT NARRATIVE FOR SMOKE/DUST OBSERVED IN
SATELLITE IMAGERY

THROUGH 1800Z May 22, 2016

DUST:

Southern California/Baja/Gulf of California:

Aerosol seen off the California coast into the Gulf of California is thought to be mostly elevated dust, some of which has originated in Asia and some of which is from the deserts of northern Baja. There is a possibility that some smoke from wildfires in Canada may have drifted south along the West Coast and mixed in with the dust.

Fig. A-30: NOAA's Satellite Service Division Smoke Text Product identified blowing dust/sand coming from the deserts of northern Baja. The notice was effective through 100 PST May 21.

Source: <http://www.ssd.noaa.gov/PS/FIRE/DATA/SMOKE/2016/2016E221806.html>.

FIGURE A-31
AIR QUALITY FORECAST FOR GUSTY WINDS & BLOWING DUST

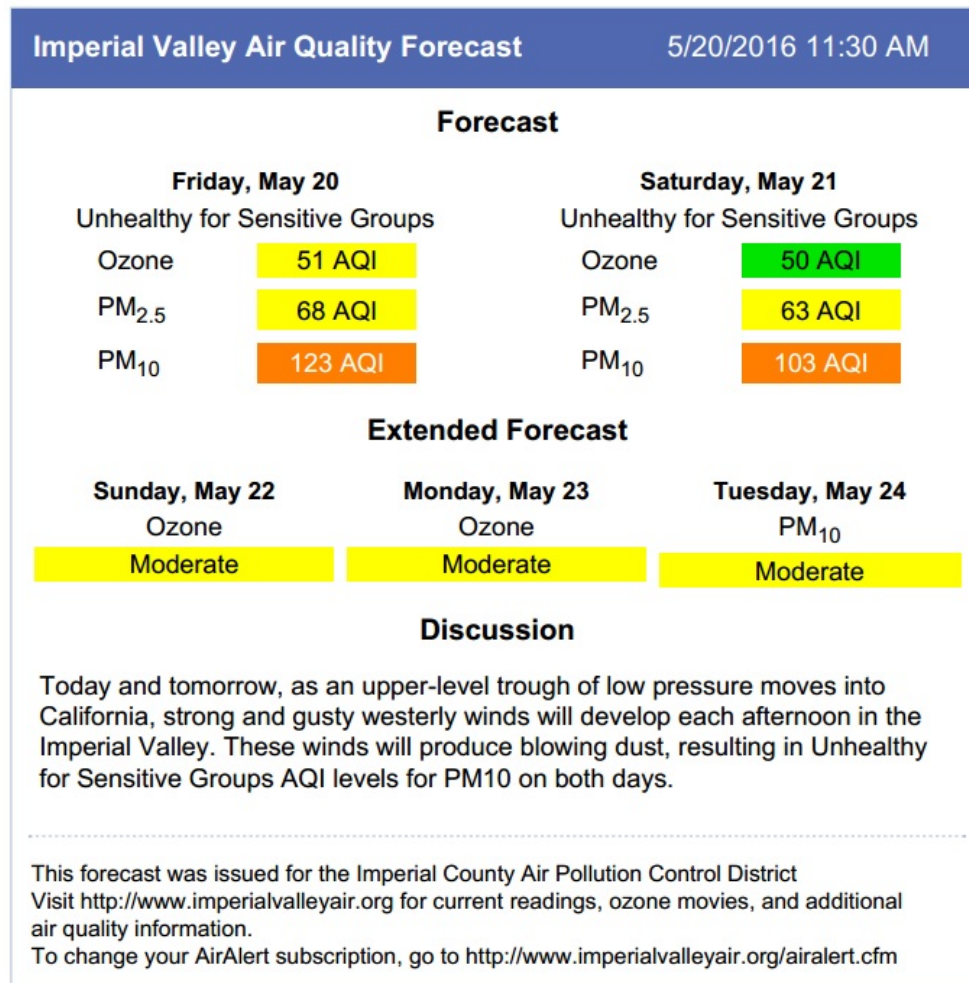


Fig. A-31: The ICAPCD posted an Air Quality Forecast on its website with the expectations for gusty winds leading to blowing dust on May 20 and May 21. Source: ICAPCD Archives.

FIGURE A-32
AIR QUALITY ALERT – VERY UNHEALTHY

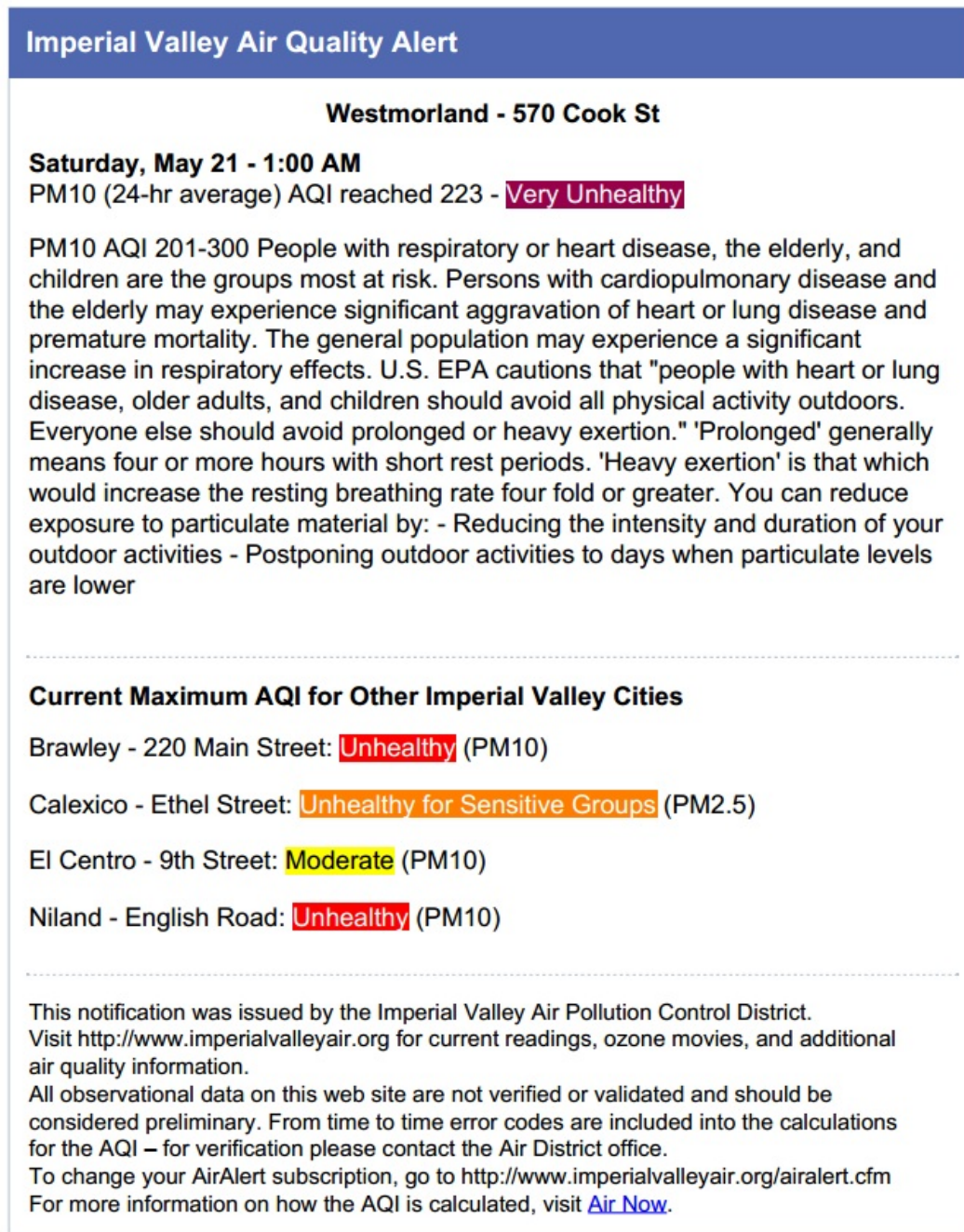


Fig. A-32: So much dust was stirred up by the high winds that the poor air affected all of Imperial County. El Centro had Moderate air quality while Calexico dipped into the Unhealthy for Sensitive Groups level. Niland and Brawley reported Unhealthy air while Westmorland reported Very Unhealthy air at 1 a.m. on May 21, 2016. Source: ICAPCD

FIGURE A-33
AIR QUALITY INDEX

Air Quality Index Levels of Health Concern	Numerical Value	Meaning
Good	0 to 50	Air quality is considered satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151 to 200	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: everyone may experience more serious health effects.
Hazardous	301 to 500	Health warnings of emergency conditions. The entire population is more likely to be affected.

Fig. A-33: The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air. EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants, EPA has established national air quality standards to protect public health. Ground-level ozone and airborne particles are the two pollutants that pose the greatest threat to human health in this country. Source: <https://airnow.gov/index.cfm?action=aqibasics.aqi>.

FIGURE A-34
NO BURN DAY – MAY 20

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Friday May 20 2016

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	74	SSE-7	10
8 AM	78	SSE-5	10
9 AM	83	NNW-5	10
10 AM	86	VRBL-6	10
11 AM	91	NE-6	10
NOON	94	E-8	10
1 PM	96	SSE-12	10
2 PM	98	SE-8	10
3 PM	101	VRBL-3	10
4 PM	101	SE-3	10
5 PM	101	VRBL-7G23	10
6 PM	96	WSW-18-G24	10
7 PM	91	W-16G29	10

Max. Temperature yesterday was 101 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 88-93

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	<u>N/A</u>	<u>9:30</u>
Forecast of Maximum Mixing Height	<u>N/A</u> feet	<u>9,273</u> feet
Forecast for Morning surface winds	<u>W 10-20</u> mph	<u>W 10-20</u> mph
Forecast for afternoon surface winds	<u>SW 20-30</u> mph	<u>SW 20-30</u> mph
Forecast for evening surface winds	<u>SW 20-30</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>SW 20-30</u> mph	

Comments/Complaints: Wind advisory in effect from noon today (gusts up to 40 MPH)

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XXX

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig. A-34: The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after.

FIGURE A-35
NO BURN DAY – MAY 21

Imperial County Air Pollution Control District
Daily Weather and Ag. Burning Information

Date: Saturday May 21 2016

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	74	CALM	10
8 AM	77	E-3	10
9 AM	79	VRBL-3	10
10 AM	83	S-6	10
11 AM	86	WSW-3	10
NOON	91	W-12G18	10
1 PM	92	WSW-10	10
2 PM	93	W-18G24	10
3 PM	93	W-20G29	10
4 PM	92	WNW-18G30	10
5 PM	90	WNW-20G26	10
6 PM	86	W-25G36	10
7 PM	83	WNW-21G31	10

Max. Temperature yesterday was 90 degrees

Today's Mt. Signal Visibility at 7:30 AM YES NKX 12Z 500 MB Height _____
1Y7 12Z 500 MB Height _____

Forecasts
High Today 79-84

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	<u>N/A</u>	<u>9:00 AM</u>
Forecast of Maximum Mixing Height	<u>N/A</u> feet	<u>9,240</u> feet
Forecast for Morning surface winds	<u>W 15-25</u> mph	<u>W 15-25</u> mph
Forecast for afternoon surface winds	<u>W 15-25</u> mph	<u>W 15-25</u> mph
Forecast for evening surface winds	<u>W 15-25</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>W 15-25</u> mph	

Comments/Complaints: _____

Burn Hours _____ ARB No Burn Day _____ District called No Burn Day XXX

Total actually burned today _____ acres Crops burned _____

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int FG

Fig. A-35: The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you. The AQI focuses on health effects you may experience within a few hours or days after.

FIGURE A-36
IMPERIAL COUNTY AFFIDAVIT OF 30 DAY PUBLIC NOTICE

AFFIDAVIT OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

01/31 .

all in the year 2018

I certify (or declare) under penalty of perjury that the foregoing is true and correct.


 SIGNATURE

Name of Account: I C AIR POLLUTION
 CONTROL
 Order Number: 11143574
 Ad Number: 31364715

* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 31 st day of January, 2018.
 at El Centro, California.

This space is for the County Clerk's
 Filing Stamp:

**NOTICE OF AVAILABILITY
 OF THE DEMONSTRATION OF THE OCCURRENCE
 OF FOUR EXCEPTIONAL EVENTS (EE)**

The Imperial County Air Pollution Control District (Air District) has prepared four Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion of measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a Federal Reference Method monitor (FRM) or with a continuous Federal Equivalent Method monitor (FEM) represent the four Draft EE's.

2014	2015	2016
May 20		May 25
Brawley FEM 250 ug/m3		Brawley FEM 165 ug/m3
2015		May 20-21
July 8		Brawley FEM 283 ug/m3
Niland FEM 166 ug/m3		Calexico FEM 159 ug/m3
		Niland FEM 309 ug/m3
		Westmorland FEM 370 ug/m3
		Brawley FEM 199 ug/m3
		Calexico FEM 228 ug/m3
		El Centro FEM 252 ug/m3

The public and all interested parties are encouraged to review and comment on the four Draft EE's listed above. These demonstrations provide the supporting evidence that on the days indicated for 2014, 2015 and 2016 Air District air monitors were affected by entrained elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event entrained PM10 into the region affecting Riverside, Imperial and San Diego counties. The four Draft EE's provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is March 2, 2018 by close of business.

The four Draft EE's for days listed above are available for download at the Air District website at www.co.imperial.ca.us, under "Air Pollution". To view a hard copy of any of the four Draft EE's, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.

L733 J31

RECEIVED

FEB 05 2018

**AIR POLLUTION
 CONTROL DISTRICT**

Fig A-36: Is a copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Events Demonstration for May 20, 2016 and May 21, 2016. The date for closing comments was March 2, 2018

FIGURE A-37
IMPERIAL COUNTY COMMENTS
REGARDING THE MAY 20, 2016 AND MAY 21, 2016 EE DEMONSTRATIONS

The ICAPCD received no comment